Braskem

February 17, 2017

Mr. William F. Durham, Director
West Virginia Department of Environmental Protection
Division of Air Quality
601 57th Street S.E.
Charleston, West Virginia 25304

CERTIFIED MAIL Receipt Requested
7016 2070 0001 0979 1772

Re: ***Braskem America, Inc. Neal Plant – Kenova, West Virginia, Facility ID No. 099-00010***
Class I Administrative Update to R13-1830K

Dear Mr. Durham:

Braskem America, Inc. (Braskem) currently operates a polypropylene production facility located in Kenova, West Virginia; the facility is commonly referred to as the Neal Plant. Operations at the Neal Plant permitted under a Title 45 Legislative Rule of the Division of Air Quality (DAQ) Series 13 (45CSR13) construction/modification permit (Permit R13-1830K) and the facility currently operates under Title V Operating Permit R30-09900010-2012 (MM03), issued April 24, 2012 (most recently modified September 15, 2014), by the West Virginia Department of Environmental Protection (WVDEP).[1]

Pursuant to 45CSR13-4, Braskem is submitting this application for a Class I Administrative Update to R13-1830K to reflect the following updates:

1. On July 1, 2013, Braskem shut down B603 (96.72 MMBtu/hr temporary natural gas fired boiler) and removed the unit on August 27, 2013. As such, Braskem is requesting removal of all references to B603 from the R13 permit.

2. Braskem requests a revision to Condition 4.2.1 of the R-13 permit to remove the stipulation that consecutive visible emissions checks may be no more than 45 days apart given that the requirement of 45CSR7 to perform a monthly visible emission check does not restrict the maximum number of days between two consecutive readings.

[1] Braskem submitted a timely and complete application to renew the Neal Plant's Title V operating permit on October 24, 2016.

200 Big Sandy River Road
Kenova, WV 25530
Tel. (304) 453-1371
www.braskem.com

3. Braskem requests a revision to Condition 4.1.1 of the R-13 permit to increase the hourly and annual VOC emission rates based on the revised AP-42 Chapter 13.5 (i.e., Industrial Flare) emission factor of 0.57 lb/MMBtu (previously, 0.14 lb/MMBtu). Braskem requests that the hourly and annual VOC emission rates be updated to 108.57 pph and 29.99 tpy, respectively. Because this update is solely intended to incorporate a revised emission factor and does not involve any changes in operating parameters, emission points, control equipment, or any other aspect of a source, this change remains eligible for classification as a Class I Administrative Update pursuant to 45CSR13-4.2.a.

As typical for Class I Administrative Updates, the enclosed application package includes the following:

- The General New Source Review (NSR) Application Form,
- Attachment A providing a copy of Braskem's Business Registration Certificate,
- Attachment C describing the proposed schedule for implementing the facility changes described herein,
- Attachment N showing supporting emissions calculations,
- Attachment R documenting the delegation of authority, and
- Proposed 45CSR13 permit language.

***

Should you have any questions concerning the information provided herein, please contact Mr. Bernie Marshall, Lead Environmental Engineer, at (304) 453 - 5926.

Sincerely,
BRASKEM AMERICA, INC.

Jeffrey Blatt
Facilities Manager

Attachments:

200 Big Sandy River Road
Kenova, WV 25530
Tel. (304) 453-1371
www.braskem.com

GENERAL NSR APPLICATION FORM – CLASS I AND II
ADMINISTRATIVE UPDATE

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF AIR QUALITY

601 57th Street, SE
Charleston, WV 25304
(304) 926-0475
www.dep.wv.gov/daq

APPLICATION FOR NSR PERMIT AND TITLE V PERMIT REVISION (OPTIONAL)

PLEASE CHECK ALL THAT APPLY TO **NSR (45CSR13)** (IF KNOWN):

☐ **CONSTRUCTION** ☐ **MODIFICATION** ☐ **RELOCATION**
☒ **CLASS I ADMINISTRATIVE UPDATE** ☐ **TEMPORARY**
☐ **CLASS II ADMINISTRATIVE UPDATE** ☐ **AFTER-THE-FACT**

PLEASE CHECK TYPE OF **45CSR30 (TITLE V)** REVISION (IF ANY):

☐ **ADMINISTRATIVE AMENDMENT** ☐ **MINOR MODIFICATION**
☐ **SIGNIFICANT MODIFICATION**

IF ANY BOX ABOVE IS CHECKED, INCLUDE TITLE V REVISION INFORMATION AS **ATTACHMENT S** TO THIS APPLICATION

FOR TITLE V FACILITIES ONLY: Please refer to "Title V Revision Guidance" in order to determine your Title V Revision options (Appendix A, "Title V Permit Revision Flowchart") and ability to operate with the changes requested in this Permit Application.

Section I. General

1. Name of applicant *(as registered with the WV Secretary of State's Office):*
Braskem America, Inc.

2. Federal Employer ID No. ***(FEIN):***
231742283

3. Name of facility *(if different from above):*
Neal Plant

4. The applicant is the:
☐ **OWNER** ☐ **OPERATOR** ☒ **BOTH**

5A. Applicant's mailing address:
200 Big Sandy Road
Kenova, WV 25530

5B. Facility's present physical address:
200 Big Sandy Road
Kenova, WV 25530

6. **West Virginia Business Registration.** Is the applicant a resident of the State of West Virginia? ☐ **YES** ☒ **NO**
- If **YES,** provide a copy of the **Certificate of Incorporation/Organization/Limited Partnership** (one page) including any name change amendments or other Business Registration Certificate as **Attachment A.**
- If **NO,** provide a copy of the **Certificate of Authority/Authority of L.L.C./Registration** (one page) including any name change amendments or other Business Certificate as **Attachment A.**

7. If applicant is a subsidiary corporation, please provide the name of parent corporation: Braskem America Incorporated

8. Does the applicant own, lease, have an option to buy or otherwise have control of the *proposed site?* ☒ **YES** ☐ **NO**
- If **YES,** please explain: Braskem owns site
- If **NO,** you are not eligible for a permit for this source.

9. Type of plant or facility (stationary source) to be **constructed, modified, relocated, administratively updated** or **temporarily permitted** (e.g., coal preparation plant, primary crusher, etc.): Polypropylene production

10. North American Industry Classification System **(NAICS)** code for the facility:
325211

11A. DAQ Plant ID No. (for existing facilities only):
099-00010

11B. List all current 45CSR13 and 45CSR30 (Title V) permit numbers associated with this process (for existing facilities only):
R13-1830K and R30-09900010-2012 (MM03), these permits are for the Neal Plant

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

12A.

- For **Modifications, Administrative Updates** or **Temporary permits** at an existing facility, please provide directions to the *present location* of the facility from the nearest state road;
- For **Construction** or **Relocation permits,** please provide directions to the *proposed new site location* from the nearest state road. Include a **MAP** as **Attachment B**.

From I-64, take Exit #1. Go south on US-52 for two (2) miles to the stoplight at the "T" intersection. Turn right and go ¼ mile and turn left through railroad underpass. Make a left after underpass and go one (1) mile to the plant entrance on the right.

12.B. New site address (if applicable):	12C. Nearest city or town:	12D. County:
N/A	Kenova, WV	Wayne
12.E. UTM Northing (KM): 4,246.1	12F. UTM Easting (KM): 360.6	12G. UTM Zone: 17

13. Briefly describe the proposed change(s) at the facility:
a. removal of B603
b. removal of time-frame requirement between consecutive visible emission checks
c. revision to flare emissions based on updated AP-42 emission factor

14A. Provide the date of anticipated installation or change: Upon submittal of Class I Update – If this is an **After-The-Fact** permit application, provide the date upon which the proposed change did happen: / /	14B. Date of anticipated Start-Up if a permit is granted: Upon submittal of Class I Update

14C. Provide a **Schedule** of the planned **Installation** of/**Change** to and **Start-Up** of each of the units proposed in this permit application as **Attachment C** (if more than one unit is involved).

15. Provide maximum projected **Operating Schedule** of activity/activities outlined in this application:
Hours Per Day 24 Days Per Week 7 Weeks Per Year 52

16. Is demolition or physical renovation at an existing facility involved? ☐ **YES** ☒ **NO**

17. **Risk Management Plans.** If this facility is subject to 112(r) of the 1990 CAAA, or will become subject due to proposed changes (for applicability help see www.epa.gov/ceppo), submit your **Risk Management Plan (RMP)** to U. S. EPA Region III.

18. **Regulatory Discussion.** List all Federal and State air pollution control regulations that you believe are applicable to the proposed process *(if known)*. A list of possible applicable requirements is also included in Attachment S of this application (Title V Permit Revision Information). Discuss applicability and proposed demonstration(s) of compliance *(if known)*. Provide this information as **Attachment D.** N/A

Section II. Additional attachments and supporting documents.

19. Include a check payable to WVDEP – Division of Air Quality with the appropriate **application fee** (per 45CSR22 and 45CSR13). N/A

20. Include a **Table of Contents** as the first page of your application package. N/A

21. Provide a **Plot Plan,** e.g. scaled map(s) and/or sketch(es) showing the location of the property on which the stationary source(s) is or is to be located as **Attachment E** (Refer to ***Plot Plan Guidance***) .
– Indicate the location of the nearest occupied structure (e.g. church, school, business, residence). N/A

22. Provide a **Detailed Process Flow Diagram(s)** showing each proposed or modified emissions unit, emission point and control device as **Attachment F.** N/A

23. Provide a **Process Description** as **Attachment G.** N/A
– Also describe and quantify to the extent possible all changes made to the facility since the last permit review (if applicable).

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

24. Provide **Material Safety Data Sheets (MSDS)** for all materials processed, used or produced as **Attachment H.**

– For chemical processes, provide a MSDS for each compound emitted to the air. N/A

25. Fill out the **Emission Units Table** and provide it as **Attachment I.** N/A

26. Fill out the **Emission Points Data Summary Sheet (Table 1 and Table 2)** and provide it as **Attachment J.** N/A

27. Fill out the **Fugitive Emissions Data Summary Sheet** and provide it as **Attachment K.** N/A

28. Check all applicable **Emissions Unit Data Sheets** listed below:

☐ Bulk Liquid Transfer Operations	☐ Haul Road Emissions	☐ Quarry
☐ Chemical Processes	☐ Hot Mix Asphalt Plant	☐ Solid Materials Sizing, Handling and Storage Facilities
☐ Concrete Batch Plant	☐ Incinerator	☐ Storage Tanks
☐ Grey Iron and Steel Foundry	☐ Indirect Heat Exchanger	
☐ General Emission Unit, specify		

Fill out and provide the **Emissions Unit Data Sheet(s)** as **Attachment L.** N/A

29. Check all applicable **Air Pollution Control Device Sheets** listed below:

☐ Absorption Systems	☐ Baghouse	☐ Flare
☐ Adsorption Systems	☐ Condenser	☐ Mechanical Collector
☐ Afterburner	☐ Electrostatic Precipitator	☐ Wet Collecting System

☐ Other Collectors, specify

Fill out and provide the **Air Pollution Control Device Sheet(s)** as **Attachment M.** N/A

30. Provide all **Supporting Emissions Calculations** as **Attachment N,** or attach the calculations directly to the forms listed in Items 28 through 31.

31. **Monitoring, Recordkeeping, Reporting and Testing Plans.** Attach proposed monitoring, recordkeeping, reporting and testing plans in order to demonstrate compliance with the proposed emissions limits and operating parameters in this permit application. Provide this information as **Attachment O.** N/A

➢ Please be aware that all permits must be practically enforceable whether or not the applicant chooses to propose such measures. Additionally, the DAQ may not be able to accept all measures proposed by the applicant. If none of these plans are proposed by the applicant, DAQ will develop such plans and include them in the permit.

32. **Public Notice.** At the time that the application is submitted, place a **Class I Legal Advertisement** in a newspaper of general circulation in the area where the source is or will be located (See 45CSR§13-8.3 through 45CSR§13-8.5 and ***Example Legal Advertisement*** for details). Please submit the **Affidavit of Publication** as **Attachment P** immediately upon receipt. N/A

33. **Business Confidentiality Claims.** Does this application include confidential information (per 45CSR31)?

☐ **YES** ☒ **NO**

➢ If **YES,** identify each segment of information on each page that is submitted as confidential and provide justification for each segment claimed confidential, including the criteria under 45CSR§31-4.1, and in accordance with the DAQ's ***"Precautionary Notice – Claims of Confidentiality"*** guidance found in the ***General Instructions*** as **Attachment Q.**

Section III. Certification of Information

34. **Authority/Delegation of Authority.** Only required when someone other than the responsible official signs the application. Check applicable **Authority Form** below:

☒ Authority of Corporation or Other Business Entity	☐ Authority of Partnership
☐ Authority of Governmental Agency	☐ Authority of Limited Partnership

Submit completed and signed **Authority Form** as **Attachment R.**

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

35A. **Certification of Information.** To certify this permit application, a Responsible Official (per 45CSR§13-2.22 and 45CSR§30-2.28) or Authorized Representative shall check the appropriate box and sign below.

Certification of Truth, Accuracy, and Completeness

I, the undersigned ☐ **Responsible Official** / ☒ **Authorized Representative,** hereby certify that all information contained in this application and any supporting documents appended hereto, is true, accurate, and complete based on information and belief after reasonable inquiry I further agree to assume responsibility for the construction, modification and/or relocation and operation of the stationary source described herein in accordance with this application and any amendments thereto, as well as the Department of Environmental Protection, Division of Air Quality permit issued in accordance with this application, along with all applicable rules and regulations of the West Virginia Division of Air Quality and W.Va. Code § 22-5-1 et seq. (State Air Pollution Control Act). If the business or agency changes its Responsible Official or Authorized Representative, the Director of the Division of Air Quality will be notified in writing within 30 days of the official change.

Compliance Certification

Except for requirements identified in the Title V Application for which compliance is not achieved, I, the undersigned hereby certify that, based on information and belief formed after reasonable inquiry, all air contaminant sources identified in this application are in compliance with all applicable requirements.

SIGNATURE _____ *(Please use blue ink)* DATE: 2/17/2017 *(Please use blue ink)*

35B. Printed name of signee: Jeffrey Blatt		35C. Title: Facilities Manager
35D. E-mail: jeffrey.blatt@braskem.com	36E. Phone: (304) 453-1371	36F. FAX: (304) 453-5916
36A. Printed name of contact person (if different from above): Bernie Marshall		36B. Title: Lead Environmental Engineer
36C. E-mail: bernard.marshall@braskem.com	36D. Phone: (304) 453-5926	36E. FAX: (304) 453-5916

PLEASE CHECK ALL APPLICABLE ATTACHMENTS INCLUDED WITH THIS PERMIT APPLICATION:

- ☒ **Attachment A: Business Certificate**
- ☐ **Attachment B: Map(s)**
- ☒ **Attachment C: Installation and Start Up Schedule**
- ☐ **Attachment D: Regulatory Discussion**
- ☐ **Attachment E: Plot Plan**
- ☐ **Attachment F: Detailed Process Flow Diagram(s)**
- ☐ **Attachment G: Process Description**
- ☐ **Attachment H: Material Safety Data Sheets (MSDS)**
- ☐ **Attachment I: Emission Units Table**
- ☐ **Attachment J: Emission Points Data Summary Sheet**
- ☐ **Attachment K: Fugitive Emissions Data Summary Sheet**
- ☐ **Attachment L: Emissions Unit Data Sheet(s)**
- ☐ **Attachment M: Air Pollution Control Device Sheet(s)**
- ☒ **Attachment N: Supporting Emissions Calculations**
- ☐ **Attachment O: Monitoring/Recordkeeping/Reporting/Testing Plans**
- ☐ **Attachment P: Public Notice**
- ☐ **Attachment Q: Business Confidential Claims**
- ☒ **Attachment R: Authority Forms**
- ☐ **Attachment S: Title V Permit Revision Information**
- ☐ **Application Fee**

Please mail an original and three (3) copies of the complete permit application with the signature(s) to the DAQ, Permitting Section, at the address listed on the first page of this application. Please DO NOT fax permit applications.

FOR AGENCY USE ONLY – IF THIS IS A TITLE V SOURCE:

- ☐ ***Forward 1 copy of the application to the Title V Permitting Group and:***
- ☐ ***For Title V Administrative Amendments:***
  - ☐ ***NSR permit writer should notify Title V permit writer of draft permit,***
- ☐ ***For Title V Minor Modifications:***
  - ☐ ***Title V permit writer should send appropriate notification to EPA and affected states within 5 days of receipt,***
  - ☐ ***NSR permit writer should notify Title V permit writer of draft permit.***
- ☐ ***For Title V Significant Modifications processed in parallel with NSR Permit revision:***
  - ☐ ***NSR permit writer should notify a Title V permit writer of draft permit,***
  - ☐ ***Public notice should reference both 45CSR13 and Title V permits,***
  - ☐ ***EPA has 45 day review period of a draft permit.***

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

ATTACHMENT A – BUSINESS REGISTRATION

WEST VIRGINIA
STATE TAX DEPARTMENT
BUSINESS REGISTRATION CERTIFICATE

ISSUED TO:
BRASKEM AMERICA, INC.
2434 BIG SANDY RD
KENOVA, WV 25530-9659

BUSINESS REGISTRATION ACCOUNT NUMBER: **1023-2565**

This certificate is issued on: 04/29/2011

This certificate is issued by
the West Virginia State Tax Commissioner
in accordance with Chapter 11, Article 12, of the West Virginia Code

The person or organization identified on this certificate is registered to conduct business in the State of West Virginia at the location above.

This certificate is not transferrable and must be displayed at the location for which issued.

This certificate shall be permanent until cessation of the business for which the certificate of registration was granted or until it is suspended, revoked or cancelled by the Tax Commissioner.

Change in name or change of location shall be considered a cessation of the business and a new certificate shall be required.

TRAVELING/STREET VENDORS: Must carry a copy of this certificate in every vehicle operated by them. CONTRACTORS, DRILLING OPERATORS, TIMBER/LOGGING OPERATIONS: Must have a copy of this certificate displayed at every job site within West Virginia.

atL006 v.4
L1645026480

ATTACHMENT C – INSTALLATION AND STARTUP SCHEDULE

Braskem plans to implement the new monthly visible emission check program after submitting this request for a Class I Administrative Update. Braskem has permanently shut down B603.

ATTACHMENT N – SUPPORTING EMISSIONS CALCULATIONS

Braskem America, Inc.
Kenova, West Virginia
EMISSIONS ESTIMATES FOR OSBL FLARE AND ISBL FLARE

EMISSION FACTORS

AP-42 "Industrial Flares 13.5" - Emission Factors and Data

VOC	0.57	lb/mmBTU	AP-42 "Industrial Flares 13.5" Table 13.5-1 (TOC as methane equivalent)

AP-42 "Natural Gas Combustion 1.4" - Emission Factors and Data

VOC	5.5	lb/mmscf	AP-42 "Natural Gas Combustion 1.4" Table 1.4-2
Density of Fuel	42000	lb/mmscf	AP-42 "Natural Gas Combustion 1.4" Table 1.4-2

ASSUMPTIONS

Other Data and Conversions

Heating Value of Propylene	0.021032	mmBTU/lb	Provided by facility
Maximum Time Flaring (ISBL)	11	hr/wk	Provided by facility (average for 2006)
Maximum Hourly Load (OSBL)	7633	lb/hr	Provided by facility
Average Annual Load (ISBL)	813990	lb/yr	Provided by facility (rolling 12 month total for 2006)
Estimated Natural Gas Usage (OSBL+ISBL)	5.245	mmscf/yr	Provided by facility

UNIT CONVERSIONS

Exact Conversions

1 ft =	0.3048	m	Exact (NIST)
1 m^3 =	1000	L	Exact (NIST)
1 lb =	0.45359237	kg	Exact (NIST)
1 kg =	1000000000	µg	Exact (NIST)

Derived Conversions

1 ft^3 =	28.31684659	L	= 1000 L/m^3 × (0.3048 m)^3 [exact]
1 lb =	453592370	µg	= 1E9 µg/kg × 0.45359237 lb/kg [exact]
1 lb/ft^3 =	16018463.37	µg/L	= 454592370 µg/lb ÷ 28.316846592 ft^3/L

CALCULATIONS (DERIVED DATA)

Derived Flare Usage

Estimated Natural Gas Usage (OSBL+ISBL)	220290	lb/yr	= Natural Gas Fuel Usage [mmscf/yr] × Density of Natural Gas [lb/mmscf]
Time Flared	572	hr/yr	= Maximum time Flaring [hr/wk] × 52 wk/yr

Derived Emission Factors (VOC Feed)

VOC	0.01198824	lb/lb	= Emission Factor [lb VOC/mmBtu] × Heating Value [mmBtu/lb Propylene]

Derived Emission Factors (Natural Gas Combustion)

VOC	0.000130952	lb/lb	= Emission Factor [lb VOC/mmBtu] × Heating Value [mmBtu/lb Natural Gas]

ANNUAL EMISSIONS FROM OSBL FLARE AND ISBL FLARE

VOC Load to Flares 5,000,000 lb/yr

	Emissions Estimates ton/yr	
VOC	29.985	[Combined] = (Natural gas Usage × Emission Factor + VOC Load × Emission Factor) ÷ 2000 lb/ton

HOURLY EMISSIONS FROM OSBL FLARE AND ISBL FLARE

	OBSL Flare	ISBL Flare	Combined	
	Emissions Estimates			
	lb/hr	lb/hr	lb/hr	
VOC	91.51	17.06	108.570	[OSBL] = (Natural Gas Usage for OSBL ÷ 8760 hr/yr × Emission Factor + Maximum Hourly VOC Load (OSBL) × Emission Factor)

ATTACHMENT R – DELEGATION OF AUTHORITY

west virginia department of environmental protection

Division of Air Quality
601 57th Street SE
Charleston, WV 25304
Phone: 304 926 0475 • FAX: 304 926 0479

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

August 16, 2011

CERTIFIED MAIL
91 7108 2133 3936 1583 6199

Mr. Christopher S. Bland
Vice-President of Manufacturing
Braskem America, Inc.
200 Big Sandy Road
Kenova, WV 25530

Re: Delegation of Authority Confirmation
Facility ID 099-00010
Kenova, West Virginia

Dear Mr. Bland:

Based on your "Delegation of Authority," dated April 12, 2011, the Division of Air Quality (DAQ) hereby acknowledges Jeffrey Blatt, Facilities Manager, as a delegated authorized representative for the above-referenced facility.

Should you have any questions or comments, please feel free to contact our office at the address or telephone number listed above.

Sincerely,

John A. Benedict
Director

JAB/seh

c: Bernie Marshall
Jeffrey Blatt, Facilities Manager
Megan Murphy
File Room

Attachment R
AUTHORITY OF CORPORATION
OR OTHER BUSINESS ENTITY (DOMESTIC OR FOREIGN)

TO: The West Virginia Department of Environmental Protection, Division of Air Quality

DATE: April 14, 2011

ATTN.: Director

Corporation's / other business entity's Federal Employer I.D. Number 231742283

The undersigned hereby files with the West Virginia Department of Environmental Protection, Division of Air Quality, a permit application and hereby certifies that the said name is a trade name which is used in the conduct of an incorporated business or other business entity.

Further, the corporation or the business entity certifies as follows:

(1) Jeffrey Blatt (is/are) the authorized representative(s) and in that capacity may represent the interest of the corporation or the business entity and may obligate and legally bind the corporation or the business entity.

(2) The corporation or the business entity is authorized to do business in the State of West Virginia.

(3) If the corporation or the business entity changes its authorized representative(s), the corporation or the business entity shall notify the Director of the West Virginia Department of Environmental Protection, Division of Air Quality, immediately upon such change.

(See the attached Delegation of Authority)

President or Other Authorized Officer
(Vice President, Secretary, Treasurer or other official in charge of a principal business function of the corporation or the business entity)

(If not the President, then the corporation or the business entity must submit certified minutes or bylaws stating legal authority of other authorized officer to bind the corporation or the business entity).

Secretary

Braskem America, Inc. (previously Sunoco Chemicals, Inc.)
Name of Corporation or business entity

DELEGATION OF AUTHORITY

In his capacity as Facilities Manager of the Braskem America, Inc. Neal Plant (the "Neal Plant"), at the direction of the Vice President of Manufacturing, and consistent with the Braskem Management Control Process Policy, Jeffrey Blatt is hereby delegated the authority necessary for the day to day business and operation of the Neal Plant, including, but without limitation, the authority to execute and deliver all permits, permit applications, reports and certifications required by applicable federal, state and local law and government agencies. Jeffrey Blatt is the designated and duly authorized "Responsible Corporate Official" as defined in 40 CFR § 70.2 for the Neal Plant, and as the "submitter" of information through the CSAT system as required by 6 CFR § 27.200.

This Delegation of Authority is effective as of April 7, 2011 despite the later signature affixed hereto, and shall remain in full force and effect until terminated or revoked in writing.

Christopher S. Bland
Vice President of Manufacturing

4-12-11
Date

REDLINE-STRIKEOUT VERSION OF PERMIT R13-1830K

West Virginia Department of Environmental Protection

Earl Ray Tomblin
Governor

Division of Air Quality

Randy C. Huffman
Cabinet Secretary

Class I Administrative Update Permit

R13-1830K

This permit is issued in accordance with the West Virginia Air Pollution Control Act (West Virginia Code §§ 22-5-1 et seq.) and 45 C.S.R. 13 — Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollutants, Notification Requirements, Temporary Permits, General Permits and Procedures for Evaluation. The permittee identified at the facility listed below is authorized to construct the stationary sources of air pollutants identified herein in accordance with all terms and conditions of this permit.

Issued to:

Braskem America, Inc.
Neal Plant
099-00010

William F. Durham
Deputy Director

Issued: March 25, 2014 • Effective: March 25, 2014

This permit will supersede and replace Permit R13-183JI issued on July 10, 2012.

Facility Location:	Kenova, Wayne County, West Virginia
Mailing Address:	200 Big Sandy Road, Kenova, WV 25530
Facility Description:	Polypropylene Production Facility
SIC Codes:	2821: Chemicals and Allied Products – Plastics Materials and Resins
UTM Coordinates:	360.6 km Easting • 4,246.1 km Northing • Zone 17
Permit Type:	Class I Administrative Update
Description of Change:	Braskem is replacing the current dust collector [G-8812] controlling Feeder #2 [L-8903], Feeder #3 [L-8904], Feeder #4 [L-8908], Feeder #5 [L-8905], Feeder #6 [L-8906], and Feeder #7 [L-8907] with passive filter systems on each individual feeder.

Any person whose interest may be affected, including, but not necessarily limited to, the applicant and any person who participated in the public comment process, by a permit issued, modified or denied by the Secretary may appeal such action of the Secretary to the Air Quality Board pursuant to article one [§§22B-1-1 et seq.], Chapter 22B of the Code of West Virginia. West Virginia Code §§22-5-14.

The source is subject to 45CSR30. Changes authorized by this permit must also be incorporated into the facility's Title V operating permit (R30-09900010-2006). Commencement of the operations authorized by this permit shall be determined by the appropriate timing limitations associated with Title V permit revisions per 45CSR30.

Table of Contents

1.0. Emission Units

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed/ Modified	Design Capacity	Control Device
001 - Boilers					
001-02 (B600)	01E	Boiler #1 – Natural Gas Steam Boiler: Model # 1VP-10B, Serial # 6380	1961	77 MMBtu/hr	Low NO_X Burners (installed 1995)
~~B603~~	~~73E~~	~~Boiler #3 – Natural Gas Steam Boiler: Tampella Power Corporation, Model No: Keeler MPO-21 O-Type~~	~~2010~~	~~96.72 MMBtu/hr~~	~~Flue Gas Recirculation~~
B604	75E	Boiler #4 – Natural Gas Steam Boiler: Babcock & Wilcox Model #FM 103-79	2011	99.66 MMBtu/hr	Inherent Flue-Gas Recirculation
001-03	70E	H-081: Nebraska Natural Gas Steam Boiler, Model # NS-A-20, Serial # D-3226	1993	6.3 MMBtu/hr	NA
001-04	70E	H-082: Nebraska Natural Gas Steam Boiler, Model # NS-A-20, Serial # D-3227	1993	6.3 MMBtu/hr	NA
002 – Raw Material Prep (Areas 10, 11, 15, and 91)					
B101	B101E	Nitrogen Heater	1960	300 TPY Propane (1.7 MMBtu/hr)	NA
OSBL Flare	B542E	OSBL Flare	--	40,000 lb/hr	NA
D1105A	B542E	Propylene Dryer	1995	81,000 lb/hr	OSBL Flare
D1105B	B542E	Propylene Dryer	1995	81,000 lb/hr	OSBL Flare
J1401A	B542E	#1 Propylene RR Unloading Station	1985	70,000 lb/hr	OSBL Flare
J1401B	B542E	#1 Propylene RR Unloading Station	1985	70,000 lb/hr	OSBL Flare
J1401C	B542E	#1 Propylene RR Unloading Station	1988	70,000 lb/hr	OSBL Flare
J1401D	B542E	#1 Propylene RR Unloading Station	1995	70,000 lb/hr	OSBL Flare
LDAR Components	Fugitive	Raw Material Prep. Fugitive Emissions	--	--	Fugitive
Unpaved Roads	Fugitive	Facility-Wide Unpaved Roads	1960	--	NA
Paved Roads	Fugitive	Facility-Wide Paved Roads	1960	--	NA
003 – Polymerization					
ISBL Flare	91E	ISBL Flare	--	366,000 lb/hr	NA
LDAR Components	Fugitive	Polymerization Fugitive Emissions	--	--	Fugitive

004 – Material Recovery					
LDAR Components	Fugitive	Material Recovery Fugitive Emissions	--	--	Fugitive
005 – Product Finishing					
L-8903	76E	L-8903 Feeder #2	2014	75,000 lb/hr	Filer #2
L-8904	77E	L-8904 Feeder #3	2014	75,000 lb/hr	Filter #3
L-8905	78E	L-8905 Feeder #5	2014	75,000 lb/hr	Filter #5
L-8906	79E	L-8906 Feeder #6	2014	75,000 lb/hr	Filter #6
L-8907	80E	L-8907 Feeder #7	2014	75,000 lb/hr	Filter #7
L-8908	81E	L-8908 Feeder #4	2014	75,000 lb/hr	Filter #4
Filer #2	76E	L-8903 Feeder #2 Bag Filter	2014	--	APCD
Filter #3	77E	L-8904 Feeder #3 Bag Filter	2014	--	APCD
Filter #5	78E	L-8905 Feeder #5 Bag Filter	2014	--	APCD
Filter #6	79E	L-8906 Feeder #6 Bag Filter	2014	--	APCD
Filter #7	80E	L-8907 Feeder #7 Bag Filter	2014	--	APCD
Filter #4	81E	L-8908 Feeder #4 Bag Filter	2014	--	APCD
L-8829	74E	L-8829 Blender/Conveyor	1994	75,000 lb/hr	G-8830
G-8830	74E	L-8829 Blender/Conveyor Bag Filter	4/11/11	--	APCD
L-8856	56E	WPB Pellet Dryer	1994	75,000 lb/hr	NA
G-738	58E	WBP South Dust Collector	--	--	APCD
Matcon-Buls Loading Booth	58E	Matcon-Buls Loading Booth (2nd Floor)	1988	1500 lb/hr	G-738
Drum Weigh Station	58E	Drum Weigh Station (3rd Floor)	1988	1500 lb/hr	G-738
D-8808	58E	D-8808 Feeder to R1 New Line B Ribbon Blender (3rd Floor)	1988	1500 lb/hr	G-738
D-8809	58E	D-8809 Feeder to R1 New Line B Ribbon Blender (3rd Floor)	1988	1500 lb/hr	G-738
L-8829	58E	L-8829 Feeder to R1 New Line B Ribbon Blender (3rd Floor)	1988	1500 lb/hr	G-738
Matcon-Buls Unloading Booth	58E	Matcon-Buls Unloading Booth (3rd Floor)	1988	1500 lb/hr	G-738
Unnamed Cyclone #2	71E	Portable Blower Unit #2 - Unnamed Cyclone #2	--	--	APCD
Portable Blower Unit #2	71E	Portable Blower Unit #2	1980	8000 lb/hr	Unnamed Cyclone #2
L-816B	68E	WP2 Extruder	1980	1,000 lb/hr	NA

WP2 Pellet Loading Hopper	69E	WP2 Pellet Loading Hopper	1980	1,000 lb/hr	NA
006 – Product Storage					
G-9001	24E	G-9001 Silos Bag Filter	--	--	APCD
D-9003	24E	D-9003 Pellet Silo	1990	75,000 lb/hr	G-9001
D-9002	24E	D-9002 Pellet Silo	1990	75,000 lb/hr	G-9001
G-9002	26E	G-9002 Silo/Blender Bag Filter	--	--	APCD
D-9001	26E	D-9001 Pellet Silo	1990	75,000 lb/hr	G-9002
D-9004	26E	D-9004 Pellet Silo	1990	75,000 lb/hr	G-9002
G-9003	72E	G-9003 Blenders Bag Filter	--	--	APCD
D-9005	72E	D-9005 Pellet Silo	1994	75,000 lb/hr	G-9003
D-9012	72E	D-9012 Pellet Silo	1994	75,000 lb/hr	G-9003
G-9004	38E	G-9004 Blenders Bag Filter	--	--	APCD
D-9006	38E	D-9006 Pellet Silo	1994	75,000 lb/hr	G-9004
D-9011	38E	D-9011 Pellet Silo	1994	75,000 lb/hr	G-9004
G-9501	42E	Floriator Bag Filter	--	--	APCD
L-9501	42E	Flotriator	1984	60,000 lb/hr	G-9501
G-9005	49E	G-9005 Blenders Bag Filter	--	--	APCD
D-9007	49E	D-9007 Pellet Silo	1994	75,000 lb/hr	G-9005
D-9010	49E	D-9010 Pellet Silo	1994	75,000 lb/hr	G-9005
G-9006	50E	G-9006 Blenders Bag Filter	--	--	APCD
D-9008	50E	D-9008 Pellet Silo	1994	75,000 lb/hr	G-9006
D-9009	50E	D-9009 Pellet Silo	1994	75,000 lb/hr	G-9006
G-9503	51E	Pelletron Bag Filter	--	--	APCD
L-9503	51E	Pelletron	1994	60,000 lb/hr	G-9503
G-0908	59E	Returned Rail Car Unloading Cyclone Cartridge Filter	--	--	APCD
G-0911	59E	Returned Rail Car Unloading Cyclone Bag Filter	--	--	G-0908
G-0904	59E	Returned Rail Car Unloading Cyclone	1980	5,479 lb/hr	G-0911
D-670 (SB-1)	60E	SB-1 Super Blender	1978	5,479 lb/hr	NA
D-672 (SB-2)	61E	SB-2 Super Blender	1981	5,479 lb/hr	NA
SB-3	62E	Truck Loading Pellet Silo	1979	33,000 lb/hr	NA
Fugitive	Fugitive	Cooling Tower	--	--	NA

2.0. General Conditions

2.1. Definitions

2.1.1. All references to the "West Virginia Air Pollution Control Act" or the "Air Pollution Control Act" mean those provisions contained in W.Va. Code §§ 22-5-1 to 22-5-18.

2.1.2. The "Clean Air Act" means those provisions contained in 42 U.S.C. §§ 7401 to 7671q, and regulations promulgated thereunder.

2.1.3. "Secretary" means the Secretary of the Department of Environmental Protection or such other person to whom the Secretary has delegated authority or duties pursuant to W.Va. Code §§ 22-1-6 or 22-1-8 (45CSR§30-2.12.). The Director of the Division of Air Quality is the Secretary's designated representative for the purposes of this permit.

2.2. Acronyms

CAAA	Clean Air Act Amendments
CBI	Confidential Business Information
CEM	Continuous Emission Monitor
CES	Certified Emission Statement
C.F.R. *or* CFR	Code of Federal Regulations
CO	Carbon Monoxide
C.S.R. *or* CSR	Codes of State Rules
DAQ	Division of Air Quality
DEP	Department of Environmental Protection
dscm	Dry Standard Cubic Meter
FOIA	Freedom of Information Act
HAP	Hazardous Air Pollutant
HON	Hazardous Organic NESHAP
HP	Horsepower
lbs/hr	Pounds per Hour
LDAR	Leak Detection and Repair
M	Thousand
MACT	Maximum Achievable Control Technology
MDHI	Maximum Design Heat Input
MM	Million
MMBtu/hr *or* mmbtu/hr	Million British Thermal Units per Hour
MMCF/hr *or* mmcf/hr	Million Cubic Feet per Hour
NA	Not Applicable
NAAQS	National Ambient Air Quality Standards
NESHAPS	National Emissions Standards for Hazardous Air Pollutants
NO_X	Nitrogen Oxides
NSPS	New Source Performance Standards
PM	Particulate Matter
$PM_{2.5}$	Particulate Matter less than 2.5 μm in diameter
PM_{10}	Particulate Matter less than 10μm in diameter
Ppb	Pounds per Batch
Pph	Pounds per Hour
Ppm	Parts per Million
Ppm_V or ppmv	Parts per Million by Volume
PSD	Prevention of Significant Deterioration
Psi	Pounds per Square Inch
SIC	Standard Industrial Classification
SIP	State Implementation Plan
SO_2	Sulfur Dioxide
TAP	Toxic Air Pollutant
TPY	Tons per Year
TRS	Total Reduced Sulfur
TSP	Total Suspended Particulate
USEPA	United States Environmental Protection Agency
UTM	Universal Transverse Mercator
VEE	Visual Emissions Evaluation
VOC	Volatile Organic Compounds
VOL	Volatile Organic Liquids

2.3. Authority

This Construction Permit is issued in accordance with West Virginia air pollution control law W.Va. Code §§ 22-5-1. et seq. and the following Legislative Rules promulgated thereunder:

2.3.1. 45CSR13 – *Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollutants, Notification Requirements, Temporary Permits, General Permits and Procedures for Evaluation*;

2.4. Term and Renewal

2.4.1. This Permit supersedes and replaces previously issued Permits R13-1830C, R13-1830D, and R13-1210A, Consent Order CO-R21-97-44, R13-1830E, R13-1830F, R13-1830G, R13-1830H, R13-1830I, and R13-1830J. This Permit shall remain valid, continuous and in effect unless it is revised, suspended, revoked or otherwise changed under an applicable provision of 45CSR13 or any other applicable legislative rule;

2.4.2. The Secretary shall review and may renew, reissue or revise this Construction Permit for cause.

2.5. Duty to Comply

2.5.1. The permitted facility shall be constructed and operated in accordance with the plans and specifications filed in Permit Application R13-1210, R13-1210A, R13-1830, R13-1830A, R13-1830B, R13-1830C, R13-1830D, R13-1830E, R13-1830F, R13-1830G, R13-1830H, R13-1830I, R13-1830J, R13-1830K, and any modifications, administrative updates, or amendments thereto. The Secretary may suspend or revoke a permit if the plans and specifications upon which the approval was based are not adhered to; **[45CSR§§13-5.11 and -10.3.]**

2.5.2. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the West Virginia Code and the Clean Air Act and is grounds for enforcement action by the Secretary or USEPA;

2.5.3. Violations of any of the conditions contained in this permit, or incorporated herein by reference, may subject the permittee to civil and/or criminal penalties for each violation and further action or remedies as provided by West Virginia Code 22-5-6 and 22-5-7;

2.5.4. Approval of this permit does not relieve the permittee herein of the responsibility to apply for and obtain all other permits, licenses, and/or approvals from other agencies; i.e., local, state, and federal, which may have jurisdiction over the construction and/or operation of the source(s) and/or facility herein permitted.

2.6. Duty to Provide Information

The permittee shall furnish to the Secretary within a reasonable time any information the Secretary may request in writing to determine whether cause exists for administratively updating, modifying, revoking, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Secretary copies of records to be kept by the permittee. For information claimed to be confidential, the permittee shall furnish such records to the Secretary along with a claim of confidentiality in accordance with 45CSR31. If confidential information is to be sent to USEPA, the permittee shall directly provide such information to USEPA along with a claim of confidentiality in accordance with 40 C.F.R. Part 2.

2.7. Duty to Supplement and Correct Information

Upon becoming aware of a failure to submit any relevant facts or a submittal of incorrect information in any permit application, the permittee shall promptly submit to the Secretary such supplemental facts or corrected information.

2.8. Administrative Permit Update

The permittee may request an administrative update to this permit as defined in and according to the procedures specified in 45CSR13.
[45CSR§13-4.]

2.9. Permit Modification

The permittee may request a minor modification to this permit as defined in and according to the procedures specified in 45CSR13.
[45CSR§13-5.4.]

2.10 Major Permit Modification

The permittee may request a major modification to this permit as defined in and according to the procedures specified in 45CSR14 or 45CSR19, as appropriate.
[45CSR§14-6. *or* 45CSR§19-12.]

2.11. Inspection and Entry

The permittee shall allow any authorized representative of the Secretary, upon the presentation of credentials and other documents as may be required by law, to perform the following:

a. At all reasonable times (including all times in which the facility is in operation) enter upon the permittee's premises where a source is located or emissions related activity is conducted, or where records must be kept under the conditions of this permit;

b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

c. Inspect at reasonable times (including all times in which the facility is in operation) any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit;

d. Sample or monitor at reasonable times substances or parameters to determine compliance with the permit or applicable requirements or ascertain the amounts and types of air pollutants discharged.

2.12. Emergency

2.12.1. An "emergency" means any situation arising from sudden and reasonable unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

2.12.2. Effect of any emergency. An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions of Section 2.12.3 are met.

2.12.3. The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:

a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;

b. The permitted facility was at the time being properly operated;

c. During the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and

d. The permittee submitted notice of the emergency to the Secretary within one (1) working day of the time when emission limitations were exceeded due to the emergency and made a request for variance, and as applicable rules provide. This notice must contain a detailed description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

2.12.4. In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof.

2.12.5 The provisions of this section are in addition to any emergency or upset provision contained in any applicable requirement.

2.13. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for a permittee in an enforcement action that it should have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. However, nothing in this paragraph shall be construed as precluding consideration of a need to halt or reduce activity as a mitigating factor in determining penalties for noncompliance if the health, safety, or environmental impacts of halting or reducing operations would be more serious than the impacts of continued operations.

2.14. Suspension of Activities

In the event the permittee should deem it necessary to suspend, for a period in excess of sixty (60) consecutive calendar days, the operations authorized by this permit, the permittee shall notify the Secretary, in writing, within two (2) calendar weeks of the passing of the sixtieth (60) day of the suspension period.

2.15. Property Rights

This permit does not convey any property rights of any sort or any exclusive privilege.

2.16. Severability

The provisions of this permit are severable and should any provision(s) be declared by a court of competent jurisdiction to be invalid or unenforceable, all other provisions shall remain in full force and effect.

2.17. Transferability

This permit is transferable in accordance with the requirements outlined in Section 10.1 of 45CSR13. **[45CSR§13-10.1.]**

2.18. Notification Requirements

2.18.1. The permittee shall notify the Secretary, in writing, within fifteen (15) calendar days of the commencement of the construction, modification, or relocation activities authorized by this permit.

2.18.2. The permittee shall notify the Secretary, in writing, at least fifteen (15) calendar days prior to the actual startup of the operations authorized under this permit.

2.19. Credible Evidence

Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defense otherwise available to the permittee including, but not limited to, any challenge to the credible evidence rule in the context of any future proceeding.

3.0. Facility-Wide Requirements

3.1. Limitations and Standards

3.1.1. **Open burning.** The open burning of refuse by any person, firm, corporation, association or public agency is prohibited except as noted in 45CSR§6-3.1.
[45CSR§6-3.1.]

3.1.2. **Open burning exemptions.** The exemptions listed in 45CSR§6-3.1 are subject to the following stipulation: Upon notification by the Secretary, no person shall cause, suffer, allow or permit any form of open burning during existing or predicted periods of atmospheric stagnation. Notification shall be made by such means as the Secretary may deem necessary and feasible.
[45CSR§6-3.2.]

3.1.3. **Asbestos.** The permittee is responsible for thoroughly inspecting the facility, or part of the facility, prior to commencement of demolition or renovation for the presence of asbestos and complying with 40 C.F.R. § 61.145, 40 C.F.R. § 61.148, and 40 C.F.R. § 61.150. The permittee, owner, or operator must notify the Secretary at least ten (10) working days prior to the commencement of any asbestos removal on the forms prescribed by the Secretary if the permittee is subject to the notification requirements of 40 C.F.R. § 61.145(b)(3)(i). The USEPA, the Division of Waste Management, and the Bureau for Public Health - Environmental Health require a copy of this notice to be sent to them.
[40CFR§61.145(b) and 45CSR§34]

3.1.4. **Odor.** No person shall cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor at any location occupied by the public.
[45CSR§4-3.1] ***[State Enforceable Only]***

3.1.5. **Permanent shutdown.** A source which has not operated at least 500 hours in one 12-month period within the previous five (5) year time period may be considered permanently shutdown, unless such source can provide to the Secretary, with reasonable specificity, information to the contrary. All permits may be modified or revoked and/or reapplication or application for new permits may be required for any source determined to be permanently shutdown.
[45CSR§13-10.5.]

3.1.6. **Standby plan for reducing emissions.** When requested by the Secretary, the permittee shall prepare standby plans for reducing the emissions of air pollutants in accordance with the objectives set forth in Tables I, II, and III of 45CSR11.
[45CSR§11-5.2.]

3.2. Monitoring Requirements

[Reserved]

3.3. Testing Requirements

3.3.1. **Stack testing.** As per provisions set forth in this permit or as otherwise required by the Secretary, in accordance with the West Virginia Code, underlying regulations, permits and orders, the permittee shall conduct test(s) to determine compliance with the emission limitations set forth in this permit and/or established or set forth in underlying documents. The Secretary, or his duly authorized representative, may at his option witness or conduct such test(s). Should the Secretary exercise his option to conduct such test(s), the operator shall provide all necessary sampling connections and sampling ports to be located in such manner as the Secretary may require, power for test equipment and the required safety equipment, such as scaffolding, railings and ladders, to

comply with generally accepted good safety practices. Such tests shall be conducted in accordance with the methods and procedures set forth in this permit or as otherwise approved or specified by the Secretary in accordance with the following:

a. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with 40 C.F.R. Parts 60, 61, and 63 in accordance with the Secretary's delegated authority and any established equivalency determination methods which are applicable. If a testing method is specified or approved which effectively replaces a test method specified in the permit, the permit will be revised in accordance with 45CSR§30-6.4. or 45CSR§30-6.5 as applicable.

b. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with applicable requirements which do not involve federal delegation. In specifying or approving such alternative testing to the test methods, the Secretary, to the extent possible, shall utilize the same equivalency criteria as would be used in approving such changes under Section 3.3.1.a. of this permit. If a testing method is specified or approved which effectively replaces a test method specified in the permit, the permit will be revised in accordance with 45CSR§30-6.4. or 45CSR§30-6.5 as applicable.

c. All periodic tests to determine mass emission limits from or air pollutant concentrations in discharge stacks and such other tests as specified in this permit shall be conducted in accordance with an approved test protocol. Unless previously approved, such protocols shall be submitted to the Secretary in writing at least thirty (30) days prior to any testing and shall contain the information set forth by the Secretary. In addition, the permittee shall notify the Secretary at least fifteen (15) days prior to any testing so the Secretary may have the opportunity to observe such tests. This notification shall include the actual date and time during which the test will be conducted and, if appropriate, verification that the tests will fully conform to a referenced protocol previously approved by the Secretary.

[WV Code § 22-5-4(a)(15)]

3.4. Recordkeeping Requirements

3.4.1. **Retention of records.** The permittee shall maintain records of all information (including monitoring data, support information, reports, and notifications) required by this permit recorded in a form suitable and readily available for expeditious inspection and review. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation. The files shall be maintained for at least five (5) years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent two (2) years of data shall be maintained on site. The remaining three (3) years of data may be maintained off site, but must remain accessible within a reasonable time. Where appropriate, the permittee may maintain records electronically (on a computer, on computer floppy disks, CDs, DVDs, or magnetic tape disks), on microfilm, or on microfiche.

3.4.2. **Odors.** For the purposes of 45CSR4, the permittee shall maintain a record of all odor complaints received. Such record shall contain an assessment of the validity of the complaints as well as any corrective actions taken.
[State Enforceable Only]

3.5. Reporting Requirements

3.5.1. **Responsible official.** Any application form, report, or compliance certification required by this permit to be submitted to the DAQ and/or USEPA shall contain a certification by the responsible official that states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

3.5.2. **Confidential information.** A permittee may request confidential treatment for the submission of reporting required by this permit pursuant to the limitations and procedures of W.Va. Code § 22-5-10 and 45CSR31.

3.5.3. **Correspondence.** All notices, requests, demands, submissions and other communications required or permitted to be made to the Secretary of DEP and/or USEPA shall be made in writing and shall be deemed to have been duly given when delivered by hand, or mailed first class with postage prepaid to the address(es) set forth below or to such other person or address as the Secretary of the Department of Environmental Protection may designate:

If to the DAQ:
Director
WVDEP
Division of Air Quality
601 57th Street
Charleston, WV 25304-2345

If to the US EPA:
Associate Director
Office of Air Enforcement and Compliance Assistance
(3AP20)
U.S. Environmental Protection Agency
Region III
1650 Arch Street
Philadelphia, PA 19103-2029

3.5.4. **Operating Fee**

3.5.4.1. In accordance with 45CSR30 – Operating Permit Program, the permittee shall submit a certified emissions statement and pay fees on an annual basis in accordance with the submittal requirements of the Division of Air Quality. A receipt for the appropriate fee shall be maintained on the premises for which the receipt has been issued, and shall be made immediately available for inspection by the Secretary or his/her duly authorized representative.

3.5.5. **Emissions inventory.** At such time(s) as the Secretary may designate, the permittee herein shall prepare and submit an emission inventory for the previous year, addressing the emissions from the facility and/or process(es) authorized herein, in accordance with the emission inventory submittal requirements of the Division of Air Quality. After the initial submittal, the Secretary may, based upon the type and quantity of the pollutants emitted, establish a frequency other than on an annual basis.

4.0. Source-Specific Requirements

4.1. Limitations and Standards

4.1.1. Maximum allowable hourly and annual emissions from the following emission points shall not exceed the limitations set forth in Table 4.1.1.

Table 4.1.1. Emission Limits

Emission Point	Pollutant	Emission Limit	
		pph	tpy
24E	PM_{10}	0.02	0.09
26E	PM_{10}	0.02	0.09
38E	PM_{10}	0.02	0.09
42E	PM_{10}	0.02	0.09
49E	PM_{10}	0.02	0.09
50E	PM_{10}	0.02	0.09
51E	PM_{10}	3.14	13.75
74E	PM_{10}	0.01	0.04
76E, 77E, 78E, 79E, 80E, 81E	PM10	0.01	0.01
56E	PM_{10}	5.00	21.90
58E	PM_{10}	0.18	0.79
59E	PM_{10}	0.55	2.40
60E	PM_{10}	0.55	2.40
61E	PM_{10}	0.55	2.40
62E	PM_{10}	2.38	10.42
68E	PM_{10}	0.12	0.53
69E	PM_{10}	0.12	0.53
70E	PM_{10} SO_2 NO_X CO VOC	0.09 0.01 1.24 1.04 0.14	0.36 0.02 4.68 3.94 0.26
71E	PM_{10}	0.80	3.50
72E	PM_{10}	0.02	0.09
~~73E~~	~~$PM_{2.5}$~~ ~~PM_{10}~~ ~~PM~~ ~~SO_2~~ ~~NO_X~~ ~~CO~~ ~~VOC~~	~~0.74~~ ~~0.74~~ ~~0.74~~ ~~0.06~~ ~~9.67~~ ~~19.30~~ ~~0.53~~	~~2.66~~ ~~2.66~~ ~~2.66~~ ~~0.21~~ ~~35.00~~ ~~69.83~~ ~~1.93~~

Emission Point	Pollutant	Emission Limit	
		pph	tpy
75E	$PM_{2.5}$	0.76	3.32
	PM_{10}	0.76	3.32
	PM	0.76	3.32
	SO_2	0.03	0.15
	NO_X	4.98	21.83
	CO	3.99	17.46
	VOC	0.35	1.53
91E and B542E	VOC	~~29.16~~	~~7.38~~
	CO	77.06	19.56
	NO_X	14.21	3.82
	PM_{10}	7.91	2.02

108.57 pph
29.99 tpy

[Compliance with this streamlined condition assures compliance with 45CSR§13-5.11. and 45CSR§7-4.1.]

4.1.2. The feed of Volatile Organic Compounds to the OSBL Flare and to the ISBL Flare shall not exceed 5,000,000 pounds per year combined on a rolling continuous twelve (12) month basis. Compliance with the annual feed rate to the OSBL Flare and ISBL Flare constitutes compliance with the emission limits in Section 4.1.1.

4.1.3. Compliance with the maintenance of air pollution control equipment requirements of Section 4.1.19 and the recordkeeping of Sections 4.4.2 and 4.4.3 shall constitute compliance with the PM_{10} emission in Section 4.1.1.

4.1.4. The hourly production, as measured at the polymerization loop reactors (R201 and R202), of Polypropylene Resin shall not exceed 75,000 pounds. The annual production of Polypropylene Resin shall not exceed 325,000 tons on a rolling continuous twelve (12) month basis.

4.1.5. The two boilers, identified as H081 and H082, shall fire only natural gas and shall be operated in such a manner as to not exceed, for each boiler, a steam production capacity of 5,000 pounds per hour or a maximum design heat input of 6.3 MMBtu per hour.

4.1.6. The two boilers, identified as H081 and H082, shall, for each boiler, combust no more than 46.8×10^6 ft^3 of natural gas per year on a rolling continuous twelve month basis.

4.1.7. *Reserved*

4.1.8. The permittee shall operate ~~B603 and~~ B604 according to the following procedures:

4.1.8.1 ~~Boiler B603 shall be limited to a maximum design heat input of 96.72 mmBtu/hr, shall combust only natural gas and shall not, on a rolling twelve month basis and in combination with B604, combust natural gas in excess of 700.06 mmscf.~~

4.1.8.2. Boiler B604 shall be limited to a maximum design heat input of 99.66 mmBtu/hr and shall combust only natural gas.

4.1.8.3 The permittee shall, at all times ~~B603 or~~ B604 is in operation, utilize flue gas recirculation. A flue gas recirculation rate shall be utilized that is consistent with good engineering practices, manufacturer's recommendations, and data developed during any required stack test so as to guarantee the optimum reduction in the formation of NO_x.

4.1.8.4. ~~The permittee shall permanently shut down B603 upon completion of the commissioning phase for B604. If boiler B603 has not been replaced by December 31, 2012, the permittee~~

~~will have 90 days to complete the stack testing of boiler B603 as required by section 4.3.7 of this permit.~~

4.1.8.5. The permittee shall meet all applicable requirements as given under 40 CFR 60, Subpart Dc [40 CFR §60.40c (a)].

4.1.8.6. The permittee shall meet all applicable requirements as given under 40 CFR 60, Subpart A [40 CFR §60.1].

4.1.9. The permittee shall demonstrate that any future proposed changes to SO_2 emission rates or emission parameters at the facility will not cause or contribute to any violation of the SO_2 NAAQS.

4.1.10. The permitted facility shall comply with all applicable requirements of 40 CFR 60 subpart VV - "Standards of Performance for Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry," provided that compliance is maintained with any more stringent limitations set forth in this permit.
[Compliance with this streamlined condition assures compliance with 45CSR§§21-37 and -38.]

4.1.11. The permitted facility shall comply with all applicable requirements of 40 CFR 60 subpart DDD - "Standards of Performance for Volatile Organic Compound (VOC) Emissions from the Polymer Manufacturing Industry," provided that compliance is maintained with any more stringent limitations set forth in this permit.
[Compliance with this streamlined condition assures compliance with 45CSR§§21-37 and -38.]

4.1.12. The permitted facility shall comply with all applicable requirements of 45CSR21 Section 37 - "Leaks from Synthetic Organic Chemical, Polymer, and Resin Manufacturing Equipment," provided that compliance is maintained with any more stringent limitations set forth in this permit.

4.1.13. The permitted facility shall comply with all applicable requirements of 45CSR21 Section 38 - "Manufacture of High-Density Polyethylene, Polypropylene, and Polystyrene Resins," provided that compliance is maintained with any more stringent limitations set forth in this permit.

4.1.14. The permitted facility shall comply with all applicable requirements of 45CSR2 - "To Prevent and Control Particulate Air Pollution from Combustion of Fuel in Indirect Heat Exchangers," provided that compliance is maintained with any more stringent limitation set forth in this permit.

4.1.14.1. The permittee shall not cause, suffer, allow or permit emission of smoke and/or particulate matter into the open air from any fuel burning unit which is greater than ten (10) percent opacity based on a six minute block average. [**45CSR§2-3.1**]

4.1.14.2. The visible emissions standards set forth in section 4.1.14.1 shall apply at all times except in periods of start-ups, shutdowns and malfunctions. Where the Director believes that start-ups and shutdowns are excessive in duration and/or frequency, the Director may require the permittee to provide a written report demonstrating that such frequent start-ups and shutdowns are necessary. [45CSR**§2-9.1**]

4.1.14.3. At all times, including periods of start-ups, shutdowns and malfunctions, owners and operators shall, to the extent practicable, maintain and operate any fuel burning unit(s) including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. [45CSR**§2-9.2**]

4.1.15. The permitted facility shall comply with all applicable requirements of 45CSR6 - "To Prevent and Control Air Pollution from the Combustion of Refuse," provided that compliance is maintained with any more stringent limitations set forth in this permit.

4.1.16. The permitted facility shall comply with all applicable requirements of 45CSR7 - "To Prevent and Control Particulate Matter Air Pollution from Manufacturing Processes and Associated Operations," provided that compliance is maintained with any more stringent limitations set forth in this permit.

4.1.16.1. The permittee shall not cause, suffer, allow or permit emission of smoke and/or particulate matter into the open air from any process source operation which is greater than twenty (20) percent opacity, except as noted in Section 4.1.16.2.
[45CSR§7-3.1.]

4.1.16.2. The provisions of Section 4.1.16.1 shall not apply to smoke and/or particulate matter emitted from any process source operation which is less than forty (40) percent opacity for any period or periods aggregating no more than five (5) minutes in any sixty (60) minute period.
[45CSR§7-3.2.]

4.1.16.3. The permittee shall not cause, suffer, allow or permit visible emissions from any storage structure(s) associated with any manufacturing process(es) that pursuant to Section 4.1.16.4 is required to have a full enclosure and be equipped with a particulate matter control device.
[45CSR§7-3.7.]

4.1.16.4. The permittee shall not cause, suffer, allow or permit any manufacturing process or storage structure generating fugitive particulate matter to operate that is not equipped with a system, which may include, but not be limited to, process equipment design, control equipment design or operation and maintenance procedures, to minimize the emissions of fugitive particulate matter. To minimize means such system shall be installed, maintained and operated to ensure the lowest fugitive particulate matter emissions reasonably achievable.
[45CSR§7-5.1.]

4.1.16.5. The permittee shall maintain particulate matter control of the plant premises, and plant owned, leased or controlled access roads, by paving, application of asphalt, chemical dust suppressants or other suitable dust control measures. Good operating practices shall be implemented and when necessary particulate matter suppressants shall be applied in relation to stockpiling and general material handling to minimize particulate matter generation and atmospheric entrainment.
[45CSR§7-5.2.]

4.1.17. The permitted facility shall comply with all applicable requirements of 45CSR10 - "To Prevent and Control Air Pollution from the Emission of Sulfur Oxides," provided that compliance is maintained with any more stringent limitation set forth in this permit.

4.1.18. The speed loops associated with the *de minimus* (per 45CSR§13-2.6) in-line process stream analyzer units (EP27, EP28, and EP29) shall at all times be vented to the flare header system.

4.1.19. *Operation and Maintenance of Air Pollution Control Equipment.* The permittee shall, to the extent practicable, install, maintain, and operate all pollution control equipment listed in Section 1.0 and associated monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions, or comply with any more stringent limits set forth in this permit or as set forth by any State rule, Federal regulation, or alternative control plan approved by the Secretary.
[45CSR§13-5.11.]

4.2. Monitoring Requirements

4.2.1. *Opacity Monitoring and Visual Emission Check Procedures.* For the purpose of determining compliance with the opacity limits set forth in Sections 4.1.14.1, 4.1.16.1 and 4.1.16.2, the

permittee shall conduct visible emission checks and/or opacity monitoring and recordkeeping for all emission sources subject to an opacity limit.

The visible emission check shall determine the presence or absence of visible emissions. At a minimum, the observer must be trained and knowledgeable regarding the effects of background contrast, ambient lighting, observer position relative to lighting, wind, and the presence of uncombined water (condensing water vapor) on the visibility of emissions. This training may be obtained from written materials found in the References 1 and 2 from 40CFR Part 60, Appendix A, Method 22 or from the lecture portion of the 40CFR Part 60, Appendix A, Method 9 certification course.

Visible emission checks shall be conducted at least once per calendar month ~~with a maximum of forty-five (45) days between consecutive readings~~. These checks shall be performed at each source (stack, transfer point, fugitive emission source, etc.) for a sufficient time interval, but no less than one (1) minute, to determine if any visible emissions are present. Visible emission checks shall be performed during periods of normal facility operation and appropriate weather conditions.

If visible emissions are present at a source(s) for three (3) consecutive monthly checks, the permittee shall conduct an opacity reading at that source(s) using the procedures and requirements of 45CSR§7A as soon a practicable, but within seventy-two (72) hours of the final visual emission check for the calendar quarter. A 45CSR§7A observation at a source(s) restarts the count of the number of consecutive readings with the presence of visible emissions. **[45CSR§2-3.2 and 45CSR§7-3.1.]**

4.2.2. The permittee shall monitor the heat content of the OSBL Flare gas using a gas chromatography (GC) analyzer or other approved device and shall calculate, as a three (3) hour rolling average, the net heating value of the gas using the equations and methods established in 40 CFR 60.564(a)(3) and 40 CFR 60.564(f) to demonstrate compliance with 40 CFR 60.18(c)(3)(ii).

4.3. Testing Requirements

4.3.1. *Stack testing.* At such reasonable times as the Secretary may designate, the permittee may be required to conduct or have conducted stack tests to determine the particulate matter loading in exhaust gases when the Secretary has reason to believe that an emission limitation is being violated. For cause, the Secretary may request the permittee to install such stack gas monitoring devices as the Secretary deems necessary to determine continuing compliance. The data from such devices shall be readily available for review on-site or at such other reasonable location that the Secretary may specify. At the request of the Secretary, such data shall be made available for inspection or copying and the Secretary may require periodic submission of excess emission reports.
[Compliance with this streamlined requirement assures compliance with 45CSR§7-8.1. and 45CSR13-6.1.]

4.3.2. *Compliance testing.* Any such test to determine compliance with particulate matter limitations set forth in Section 4.1.1 shall be conducted in accordance with Method 5 of 40CFR60 Appendix A, Method 201 or 201A of 40CFR§51, or other such appropriate method approved by the Secretary. All such compliance tests must consist of not less than three (3) test runs; any test run duration shall not be less than sixty (60) minutes and no less than thirty (30) standard cubic feet of exhaust gas must be sampled during each test run. Such tests shall be conducted under such reasonable operating conditions as the Secretary may specify. The Secretary, or a duly authorized representative, may option to witness or conduct such stack tests. Should the Secretary exercise this option to conduct such tests, the registrant shall provide all necessary sampling connections and sampling ports located in a manner as the Secretary may require, power for test equipment and required safety equipment in place such as scaffolding, railings and ladders in order to comply with generally accepted good safety practices.

[45CSR§7-8.1.]

4.3.3. Any stack serving any process source operation or air pollution control device on any process source operation shall contain flow straightening devices or a vertical run of sufficient length to establish flow patterns consistent with acceptable stack sampling procedures. **[45CSR§7-4.12.]**

4.3.4. *Opacity testing.* Any test to determine compliance with the visible emission (opacity) limitations set forth in Sections 4.1.16.1 and 4.1.16.2, per the requirements of Section 4.2.1, shall be conducted by personnel appropriately trained for the task. Personnel performing the visual emissions observation shall be trained and familiar with the limitations and restrictions associated with 40CFR Part 60, Appendix A – Method 22. Any person performing an opacity observation for compliance assessment in the event of visible emissions must be a certified visible emission observer in accordance with 45CSR7A – "Compliance Test Procedures for 45CSR7 – *To Prevent and Control Particulate Air Pollution from Manufacturing Process Operations*" and Method 22 of 40CSR60 Appendix A. Nothing in this section, however, shall preclude any permittee or the Secretary from using opacity data from a properly installed, calibrated, maintained and operated continuous opacity monitor as evidence to demonstrate compliance or a violation of visible emission requirements. If continuous opacity monitoring data results are submitted when determining compliance with visible emission limitations for a period of time during which 45CSR7A or Method 22 data indicates noncompliance, the 45CSR7A or Method 22 data shall be used to determine compliance with the visible emission limitations.

4.3.5. *Notification of compliance testing.* For any compliance test to be conducted by the permittee as set forth in Section 4.3, a test protocol shall be submitted to the Secretary at least thirty (30) calendar days prior to the scheduled date of the test. Such compliance test protocol shall be subject to approval by the Secretary. The permittee shall notify the Secretary at least fifteen (15) days in advance of actual test dates and times during which the test (or tests) will be conducted.

4.3.6. *Alternative test methods.* The Secretary may require a different test method or approve an alternative method in light of any technology advancements that may occur and may conduct or require such other tests as may be deemed necessary to evaluate air pollution emissions. **[45CSR7-8.2]**

4.3.7. ~~If boiler B603 has not been replaced by December 31, 2012, the permittee shall conduct, or have conducted within 90 days, and at such times thereafter as may be required by the Secretary, a performance test on Boiler B603 to determine compliance with the emission limits (as given under Table 4.1.1.) of the pollutants listed in Table 4.3.7. The permittee shall use the test methods specified in Table 4.3.7, unless granted approval in writing by the Director to use an alternative test method in a protocol submitted pursuant to 3.3.1.c.~~

~~**Table 4.3.7: Boiler B603 Test Methods**~~

~~Pollutant~~	~~Test Method(1)~~
~~CO~~	~~Method 10~~
~~NO_x~~	~~Method 7E~~

~~(1) All test methods refer to those given under 40 CFR 60, Appendix A~~

4.3.8. Within one year of start-up of the Baghouse [G-8830], the permittee shall conduct or have conducted a performance test on Baghouse G-8830 to determine compliance with the emission limits for PM10 emissions from emission point 74E. The permittee shall use the test methods specified in section 4.3.2 of this permit.

4.3.9. Within six (6) months of startup of B604, and at such times thereafter as may be required by the Secretary, the permittee shall conduct, or have conducted, a performance test on Boiler B604 to determine compliance with the emission limits (as given under Table 4.1.1.) of the pollutants listed in Table 4.3.9. The permittee shall use the test methods specified in Table 4.3.9 unless granted approval in writing by the Director to use an alternative test method in a protocol submitted pursuant to section 3.3.1.c of this permit.

Table 4.3.9: Boiler B604 Test Methods

Pollutant	Test Method[1]
CO	Method 10
NO_x	Method 7E

(1) All test methods refer to those given under 40 CFR 60, Appendix A

4.4. Recordkeeping Requirements

4.4.1. *Record of Monitoring.* The permittee shall keep records of monitoring information that include the following:

a. The date, place as defined in this permit, and time of sampling or measurements;

b. The date(s) analyses were performed;

c. The company or entity that performed the analyses;

d. The analytical techniques or methods used;

e. The results of the analyses; and

f. The operating conditions existing at the time of sampling or measurement.

4.4.2. *Record of Maintenance of Air Pollution Control Equipment.* For all pollution control equipment listed in Section 1.0, the permittee shall maintain accurate records of all required pollution control equipment inspection and/or preventative maintenance procedures.

4.4.3. *Record of Malfunctions of Air Pollution Control Equipment.* For all air pollution control equipment listed in Section 1.0, the permittee shall maintain records of the occurrence and duration of any malfunction or operational shutdown of the air pollution control equipment during which excess emissions occur. For each such case, the following information shall be recorded:

a. The equipment involved.

b. Steps taken to minimize emissions during the event.

c. The duration of the event.

d. The estimated increase in emissions during the event.

For each such case associated with an equipment malfunction, the additional information shall also be recorded:

e. The cause of the malfunction.

f. Steps taken to correct the malfunction.

g. Any changes or modifications to equipment or procedures that would help prevent future recurrences of the malfunction.

4.4.4. For the purpose of determining compliance with Sections 4.1.6 and 4.1.8.1, the permittee shall keep individual monthly and rolling twelve-month total records of natural gas usage for boilers ~~B603,~~ B604, H081, and H082 and the corresponding operating schedule records for B604. Said records shall be kept on-site for a period of at least five (5) years. Said records shall be certified and made available upon request of the Director or his/her duly authorized representative **[45CSR §2-8.3(c) and 40CFR §60.48c (g) (2)].**

4.4.5. The permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of Boiler B604; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative **[40 CFR §60.7(b)].**

4.4.6. The permittee shall maintain records of all monitoring data required by Section 4.2.1 documenting the date and time of each visible emission check, the emission point or equipment/source identification number, the name or means of identification of the responsible observer, the results of the check, whether the visible emissions are normal for the process, and, if necessary, all corrective actions taken. The permittee shall also record the general weather conditions during the observations. An example form is supplied as Appendix A. Should a visible emission observation be required to be performed per the requirements specified in 45CSR§7A, the data records of each observation shall be maintained per the requirements of 45CSR§7A. For an emission unit out of service during the normal monthly evaluation, the record of observation may note "out of service" (O/S) or equivalent.

4.4.7. For the purpose of determining compliance with Section 4.1.2, the permittee shall maintain records of the 12-month rolling total of VOC loading to each flare and shall maintain records of the 12-month rolling total of the combined VOC loading to both flares.

4.4.8. The permittee shall keep records of the calculated heat content of the OSBL Flare on a 3-hour average basis. At least 90% of the data for each semi-annual period shall be available at all times.

4.5. Reporting Requirements

4.5.1. The permittee shall report any emergency emissions to the ISBL (91E) or the OSBL (B542E) flare systems to the West Virginia Division of Air Quality. The facility must provide the following information in the report: date of the occurrence, amount and type of materials vented to the flare, time that emissions to the flare started, time that emissions to the flare ended, and the reason for emergency emissions to the flare.

4.5.2. The permitted facility shall comply with the certification and reporting requirements of Sections 5.1 and 5.2 of 45CSR21.

4.5.3. Any violation(s) of the allowable visible emission requirement for any emission source discovered during testing using 45CSR§7A must be reported in writing to the Director of the Division of Air Quality as soon as practicable, but within ten (10) calendar days, of the occurrence and shall include, at a minimum, the following information: the results of the visible determination of opacity of emissions, the cause or suspected cause of the violation(s), and any corrective measures taken or planned.

4.5.4. For Boiler B604, the permittee shall report any malfunction of the boiler or its air pollution control equipment which results in any excess particulate matter emission rate or excess opacity as follows:

4.5.4.1. Excess opacity periods meeting the following conditions may be reported on a quarterly basis unless otherwise required by the Director:

a. The excess opacity period does not exceed thirty (30) minutes within any 24-hour period; and
b. Excess opacity does not exceed 40%.

4.5.4.2. The permittee shall report any malfunction resulting in excess particulate matter or excess opacity, not meeting the criteria is section 4.5.4.1 of this permit, by telephone, or e-mail by the end of the next business day after becoming aware of such condition. The permittee shall file a certified written report concerning the malfunction with the Director within thirty (30) days providing the following information:

a. A detailed explanation of the factors involved or causes of the malfunction;
b. The date and time of duration (with starting and ending times) of the period of excess emissions;
c. An estimate of the mass of excess emissions discharged during the malfunction period;
d. The maximum opacity measured or observed during the malfunction;
e. Immediate remedial actions taken at the time of the malfunction to correct or mitigate the effects of the malfunction; and
f. A detailed explanation of the corrective measures or program that will be implemented to prevent a recurrence of the malfunction and a schedule for such implementation.
[45 CSR §2-9.3]

4.5.5. For Boiler 604, the permittee shall submit notification of the date of construction, no later than 30 days after construction is commenced and actual startup, postmarked within 15 days after such date. This requirement supersedes the notification timing requirements specified in section 2.18 of this permit. The notification shall include:

4.5.5.1. The design heat input capacity of the affected facility and identification of fuels to be combusted in the affected facility;

4.5.5.2. The annual capacity factor at which the permittee anticipates operating the affected facility based on all fuels fired and based on each individual fuel fired.
[40 CFR §60.7 and 40 CFR §60.48c (a)]

~~4.5.6. To demonstrate compliance with section 4.1.8.4 of this permit, the permittee shall submit notification of the date of that Boiler B603 was permanently shutdown. Additionally, any reference to Boiler B603 is no longer applicable upon permanent shutdown of Boiler B603.~~

APPENDIX A (Monthly Opacity Record)

Date of Observation: _____

Data Entered by: _____

Reviewed by: _____

Date Reviewed: _____

Describe the General Weather Conditions: _____

Stack/Vent ID/ Emission Point ID	Stack/Vent/Emission Point Description	Time of Observation	Visible Emissions? Yes/No	Consecutive Months of Visual Emissions	Comments

CERTIFICATION OF DATA ACCURACY

I, the undersigned, hereby certify that, based on information and belief formed after reasonable inquiry, all information contained in the attached _____, representing the period beginning _____ and ending _____, and any supporting documents appended hereto, is true, accurate, and complete.

Signature[1] _____ _____
(please use blue ink) Responsible Official or Authorized Representative Date

Name & Title _____ _____
(please print or type) Name Title

Telephone No. _____ Fax No. _____

[1] This form shall be signed by a "Responsible Official." "Responsible Official" means one of the following:

a. For a corporation: The president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit and either:

(i) the facilities employ more than 250 persons or have a gross annual sales or expenditures exceeding $25 million (in second quarter 1980 dollars), or

(ii) the delegation of authority to such representative is approved in advance by the Director;

b. For a partnership or sole proprietorship: a general partner or the proprietor, respectively;

c. For a municipality, State, Federal, or other public entity: either a principal executive officer or ranking elected official. For the purposes of this part, a principal executive officer of a Federal agency includes the chief executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., a Regional Administrator of U.S. EPA); or

d. The designated representative delegated with such authority and approved in advance by the Director.